

APR 17 1912

PROCEEDINGS  
OF THE  
PACIFIC COAST ENTOMOLOGICAL SOCIETY.

COMMITTEE ON PUBLICATION.

FRANK E. BLAISDELL, *Editor*

EDWIN C. VAN DYKE

CREIGHTON WELLMAN

On Aug. 7th, 1901, Mr. Chas. Fuchs issued the following call for the organization of an Entomological Society:

"With the view of organizing a Club of Entomologists on the Pacific Coast, for the purpose of promoting interest in Entomological research, a meeting will be held at the California Academy of Sciences on Thursday, Aug. 15th, at 2 o'clock.

"You are urgently invited to attend this meeting."

The following entomologists responded in person:

Chas. Fuchs, Dr. E. C. Van Dyke, Prof. H. C. Fall, L. E. Ricksecker, Dr. H. H. Behr, W. G. W. Harford, Beverly Letcher, F. W. Nunenmacher, Dr. F. E. Blaisdell, Prof. Wm. Ashmead.

The following communicated by letter:

J. G. Grundel, C. A. Whiting, Newton B. Pierce, C. W. Herr, Dr. A. Fenyes, Geo. W. Harney, F. C. Clark, Prof. J. J. Rivers, Dr. L. O. Howard, Edw. M. Ehrhorn, James W. Cottle, Alex. Craw, Prof. Vernon Kellogg, and Grattum Naturalists Club.

Pursuant to call, the meeting convened on Aug. 15th, 1901, in the California Academy of Sciences, San Francisco.

Prof. H. C. Fall, acting as temporary President, opened the meeting with a few appropriate remarks.

The following officers were then elected to serve for the current year:

Chas. Fuchs, President; Prof. Vernon L. Kellogg, Vice-President; Dr. F. E. Blaisdell, Secretary and Treasurer.

President Fuchs then took the chair and after a short address, proceeded to the further organization of the Society.

The following Constitution and By-Laws were formulated and accepted:

ARTICLE I.

This Society shall be known as the California Entomological Club.

## ARTICLE II.

The object of this Society shall be to promote Entomological research and coöperation among the Entomologists of California.

## ARTICLE III.

Any person interested in Entomology shall be eligible to membership by the votes of two-thirds of the members, with an initiation fee of fifty cents, which will pay dues for the current year.

## ARTICLE IV.

The annual dues shall be fifty cents.

## ARTICLE V.

The officers of this Society shall consist of a President, Vice-President, Secretary and Treasurer; and such Committees as are deemed necessary.

## ARTICLE VI.

It shall be the duty of the President to preside at all meetings. In his absence, the Vice-President shall take his place. These officers being absent, a temporary President may be chosen from among the members present.

## ARTICLE VII.

Quarterly meetings of this Society shall be held, commencing Aug. 15th, 1901; and an annual meeting which shall be subject to change of time and place.

## ARTICLE VIII.

A special meeting shall be held at any time, upon the call of the President, notice thereof to be mailed by the Secretary to each of the members.

## ARTICLE IX.

This Constitution and By-Laws may be altered or amended by the votes of two-thirds of the members, pursuant to Article VII.

## ARTICLE X.

That an abstract of the proceedings of the meetings of this Society be prepared and forwarded to the Entomological News of Philadelphia for publication.

## ARTICLE XI.

The following shall be the order of business at each meeting of the Club:

1. The calling of the meeting to order.
2. Reading of the minutes of the previous meeting.
3. Roll call.
4. Report of the Treasurer.

5. Report of Committees.
6. Addresses or the reading of papers.
7. Discussion.
8. Miscellaneous business.
9. Adjournment.

Then followed a discussion appertaining to the future welfare of the Club, with interesting remarks by Dr. Ashmead.

It was decided that the next meeting,—on Nov. 15th,—be held at the residence of Mr. Chas. Fuchs, 212 Kearny street, San Francisco.

That the May meeting should be a Field Day.

That the Summer meeting be termed the Annual meeting. Social discourse followed.

The following is a list of the Charter Members:

Chas. Fuchs, Edwin C. Van Dyke, M. D., Prof. H. C. Fall, L. E. Ricksecker, H. H. Behr, M. D.,<sup>1</sup> W. G. W. Harford,<sup>2</sup> Beverly Letcher,<sup>3</sup> F. W. Nunenmacher, Dr. Wm. Ashmead,<sup>4</sup> Edwin M. Ehrhorn, James E. Cottle, F. E. Blaisdell, M. D., J. G. Grundel, C. A. Whiting, Newton B. Pierce, C. W. Herr, Geo. W. Harney, F. C. Clark, Prof. J. J. Rivers, L. O. Howard, Ph. D., L. Durstein,<sup>5</sup> Grattum Naturalists Club.

Adjournment.

F. E. BLAISDELL, Secretary,  
1906 Sutter St., San Francisco.

The second regular quarterly meeting of the California Entomological Club was held Nov. 15th, 1901, at the residence of the President, Chas. Fuchs, the members being his guests.

The President called the meeting to order at 8 o'clock.

The following members responded to roll call:

President Fuchs, Beverly Letcher, F. W. Nunenmacher, Edw. M. Ehrhorn, James E. Cottle, J. G. Grundel, F. C. Clark, L. Durstein, Dr. F. E. Blaisdell, Alex. Craw and Dr. L. E. Berger.

The following visitors were present:

Francis X. Williams, J. C. Huguenin, Henry A. Lafler.

The minutes of the last meeting were read and approved.

Prof. H. C. Fall's paper on the "Coleoptera of Southern California" was then read in abstract.

A discussion of the paper then followed in which Letcher, Ehrhorn, Grundel, Fuchs, and Blaisdell took part.

It was agreed that an interfaunal line should be decided upon separating Northern and Central California.

<sup>1</sup> Died in San Francisco, March 6th, 1904, aet. 86 yrs.

<sup>2</sup> Died in Alameda, California, March 1st, 1911.

<sup>3</sup> Died in San Francisco, July 17th, 1905, aet. 41 yrs.

<sup>4</sup> Died in Washington, D. C., Oct. 17th, 1908, aet. 53 yrs.

<sup>5</sup> Died: Data not obtainable at present.

The migration of insects was discussed by Messrs. Letcher and Ehrhorn in particular.

It was finally decided that each member should consider himself a member of a committee to look up and present his views upon such faunal limits as his knowledge of the distribution of insects suggested; especially with regard to the Order in which he is interested, this to be correlated for the purpose of defining such geographical boundaries as may be best for an interfaunal line, and to report at the next meeting of the Club.

Mr. Letcher then presented the following resolution, which was read and unanimously accepted:

Resolved, That the California Entomological Club recognizes the value of Prof. H. C. Fall's contribution to our knowledge of the Coleoptera of California, and that on behalf of the Entomologists of the State, our thanks for his work are extended.

Dr. Blaisdell followed with a paper on "The Frons in *Bembidium*, with Descriptions of New Species."

F. C. Clark exhibited a box of Hymenoptera and Diptera collected about Napa, California; Edw. Ehrhorn, three large photographs of Exotic Scarabæidæ; Dr. Blaisdell, ink drawings of *Bembidium inaequale*, *littorale*, and *punctato-striatum*, larva and pupa of *Cicindela oregona*, pupa of *Elcodes clavicornis*, and mouth-parts of *Platynus brunneomarginatus*; Mr. Fuchs, two boxes of Scarabæidæ; Mr. Nunenmacher a box of native and exotic Coccinellidæ; Mr. Grundel, a specimen of *Lycaena sonorensis*, collected near Alma, Santa Clara Co., California. A debate by Messrs. Letcher and Ehrhorn then followed, on the effect of altitude on the variation of species.

The following new members were then proposed:

Mr. Albert Koebele, Honolulu, by Mr. Nunenmacher, seconded by Alex. Craw.

Mr. J. C. Huguenin, 413 Kearny street, San Francisco, by Beverly Letcher, seconded by Dr. Blaisdell.

Mr. Ralph Hopping, of Redstone Park, Kaweah, California, by Beverly Letcher, seconded by Dr. Blaisdell.

Mr. Geo. A. Coleman, Palo Alto, California, by Edw. Ehrhorn, seconded by Prof. V. L. Kellogg.

Prof. C. W. Woodworth, 2043 Lincoln street, Berkeley, California, by Edw. Ehrhorn, seconded by Beverly Letcher.

Mrs. F. C. Clark, Napa City, California, by F. C. Clark, seconded by F. W. Nunenmacher.

Dr. L. E. Berger, by Beverly Letcher, seconded by Mr. Nunenmacher.

The proposed members were elected, the Secretary casting the votes.

Social discourse then followed.

Adjournment.

F. E. BLAISDELL, Secretary.

The third regular quarterly meeting of the California Entomological Club was held on the evening of Feb. 22nd, 1902, at the residence of Mr. Beverly Letcher, 2701 Laguna street, San Francisco.

President Fuchs in the chair.

The minutes of the preceding meeting were read and approved.

Six members responded to roll call as follows:

President Fuchs, Beverly Letcher, James Cottle, J. C. Huguenin, F. E. Blaisdell, Edw. Ehrhorn.

Two visitors were present, namely:

Miss Alice Eastwood, and O. N. Sanford.

A paper by Dr. E. C. Van Dyke on the "Faunal Areas in California, as Seen by a Field Coleopterist," was then read.

Then followed an article on the "Distribution of California Day Fliers," by Beverly Letcher.

In order to compare and correlate plant and insect distribution as far as possible, an invitation was extended to Miss Alice Eastwood, Curator of the Herbarium of the California Academy of Sciences, to present her views upon the Floral Areas of California.

Miss Eastwood responded with a very instructive and interesting talk.

The subject of discussion for the evening then came up, namely: An interfaunal line between Northern and Central California.

It was decided that only a line of convenience could be drawn, and it was felt best to accept the following one suggested by Mr. Ralph Hopping:

A line beginning at the Golden Gate and following the Bay of San Francisco to the mouth of the San Joaquin River; thence along the northern boundaries of San Joaquin, Calaveras and Alpine Counties to the Nevada State line.

By accepting this, the boundaries between Northern and Central, and by Fall's line, those between Central and Southern California will be definitely fixed.

Mr. Ralph Hopping's "Notes on *Acmaeodera mariposa*" was then read.

Notes on Lepidoptera and two specimens of *Cychnus* were received from the Grattum Naturalists Club of Eldorado County, California.

An anonymous and humorous communication from the U. S. Agricultural Department was then read.

A vote of thanks was extended to Miss Eastwood for her interesting talk.

Mr. Edw. Ehrhorn exhibited an interesting collection of Scale Insects, explained their beneficial and injurious properties, also their distribution by aid of a map; stated that they follow

their food plants, and that in 1875 only 570 species were known, while at present over 1500 species are recorded.

Mr. Fuchs recommended that the attention of Entomologists at large be called to the fixing of definite boundaries for Northern, Central, and Southern California, by a special article, to be published in the Entomological News. Collectors and writers should be urged to conform their future observations to these boundaries. This is to be done for the sake of accuracy in studying distribution.

The above recommendation was carried by a unanimous vote.

Mr. Hamilton Otis was elected to membership.

Social discourse followed and then adjournment.

F. E. BLAISDELL, Secretary.

---

The fourth quarterly meeting of the Club was a Field Day, and was held in the vicinity of Irvington and Niles, Alameda County, California, May, 1902. The following members participated in the outing: Edw. Ehrhorn, Chas. Fuchs, James Cottle, Beverly Letcher, F. W. Nunenmacher, F. C. Clark, L. E. Ricksecker, J. C. Huguenin, F. E. Blaisdell, and the following visitors were present: F. X. Williams and Dr. Walther Horn of Berlin.

During the day many interesting captures were made, in spite of a strong wind that was blowing. When wearied with collecting, an outdoor meeting was held, during which Dr. Horn entertained the Club with an instructive account of the earlier collectors who visited the Pacific Coast. Dr. Horn considered the disposition of their types.

A discussion followed on the value and care of types, and what should be their final disposition. Messrs. Fuchs and Letcher with Dr. Horn participated in this talk.

After a social discussion, came the adjournment and preparation for the home trip.

F. E. BLAISDELL, Secretary.

---

The fifth regular meeting of the California Entomological Club was held on the evening of Aug. 16th, 1902, at the residence of James Cottle, 1520 Pacific avenue, San Francisco.

President Fuchs in the chair.

The minutes of the preceding meeting were read and approved.

Eight members responded to roll call, as follows:

President Chas. Fuchs, Beverly Letcher, F. C. Clark, Dr. E. C. Van Dyke, James E. Cottle, J. C. Huguenin, F. W. Nunenmacher, F. E. Blaisdell, Edw. Ehrhorn.

Mr. F. C. Clark, of Napa, proposed for membership, Dr. H.

J. Simpson, a gentleman interested in general Entomology, and Mr. Wm. Chapman, a specialist in Diptera. The proposals were seconded by Mr. Letcher and the candidates were elected by a unanimous vote.

Election of officers for the ensuing year was then proceeded with.

Mr. Letcher proposed the incumbent, Mr. Fuchs, for reelection; Prof. H. C. Fall, of Pasadena, for Vice-President, and F. E. Blaisdell for Secretary and Treasurer. The nominations being seconded, the candidates were elected by a unanimous vote.

President Fuchs then addressed the Club. He reviewed the progress of the Society, stating that it was already well known on the Pacific Coast and in the East. Mr. Fuchs referred to his meeting Prof. Schaupp in 1878, while out collecting, and of the organizing of the Brooklyn Entomological Society. The value and advantages of Entomological Societies were dwelt upon. Studies carried on in the East by Dr. Van Dyke were mentioned. He stated that his observations on the Eastern collections would be of great aid to Entomologists of the Pacific Coast. Credit was given to the energetic endeavors of Mr. Letcher, and the results of his collecting in the vicinity of Mt. Shasta mentioned. He was also commended for his promptness in giving his aid to his fellow Entomologists and in assisting their endeavors to advance our knowledge. The work done by Mr. Cottle in Siskiyou County, and the value and earnestness of the work carried on in collecting Coleoptera and Hymenoptera about Napa, by Mr. F. C. Clark, were spoken of.

The visit of Dr. Walther Horn, of Berlin, and his researches in the Cicindelidæ were mentioned and the aid received from him in the arranging of our specimens in that family was appreciatingly acknowledged.

A recent visit of Prof. Kincaid of the University of Washington was referred to, as he had expressed a desire to become a co-worker in the Club. The advisability of extending its limits so as to include all the Pacific Coast was then suggested. President Fuchs therefore concluded his address by calling upon the members for an expression of their opinion with regard to extending the limits of the Club.

After some discussion, it was voted that the name of the Club be changed to the PACIFIC COAST ENTOMOLOGICAL SOCIETY, and that members be enrolled from any part of the Pacific Coast.

Mr. Letcher then spoke upon the advisability of devising a plan for selling insects, the proceeds of which were to be applied to the purchase of Entomological publications for the Society.

It was suggested that the exchange of the insects for the publications might be made direct.

President Fuchs appointed a committee of three to report upon some plan, at the next meeting of the Society.

Dr. Blaisdell proposed the purchasing of a mimeograph for

the drafting of copies of the proceedings of the Society, so that distant members could be kept in touch with the actions of the Society, and thus prevent the tendency to apathy in the distant or absent members.

Mr. Nunenmacher spoke of a collecting trip that he anticipated taking, and expressed his desire and willingness to collect in the different orders, for members of the Society who should so wish him to do, as his interest centered upon the *Coccinellidæ*.

Mr. Cottle exhibited a beautiful series of the day flying moth, *Pseudohazis eglanterina*, taken by him near Upper Soda Springs, Siskiyou County, California. The series included forms ranging from *denudata* to *shastensis*; also specimens of *Sphinx sequoia*, collected in the same locality, were shown.

After social discourse, the Society adjourned, with the understanding that the next meeting be held at the residence of Dr. Blaisdell, 1800 O'Farrell street, San Francisco.

F. E. BLAISDELL, Secretary.

---

The sixth quarterly meeting of the Pacific Coast Entomological Society was held on the evening of Nov. 15th, 1902, at the residence of Dr. F. E. Blaisdell, 1800 O'Farrell street, San Francisco.

President Fuchs in the chair.

Minutes of the preceding meeting were read and approved.

Ten members responded to roll call as follows:

Beverly Letcher, F. W. Nunenmacher, Edw. Ehrhorn, James Cottle, Dr. E. C. Van Dyke, J. G. Grundel, Dr. F. E. Blaisdell, Prof. C. W. Woodworth, Chas. Fuchs, J. C. Huguenin.

The following visitors were in attendance:

J. S. Hunter, of Berkeley; Fordyce Grinnell, of Palo Alto; Miss Julia Wright, of Alameda; Leon E. Munier, of San Francisco; W. F. Clark, of Berkeley, and O. N. Sanford, of San Francisco.

The Treasurer then read his report.

The committee on means to obtain Entomological literature then reported as follows:

Mr. President: The committee appointed by you at the last meeting to devise a plan for obtaining, selling or exchanging insects for the purpose of obtaining Entomological literature, beg to report as follows: That the insects be obtained by contribution from the members, and that they be disposed of singly or as a collection to any one desiring to purchase; that a price be set upon each specimen or be sold to the highest bidder, as the case may be.

That a member be appointed or elected to take charge of the insects and arrange for their disposal, by keeping the different members of the Society informed as to what specimens are for

sale, and also to send out notices to collectors, giving price on individual specimens or the entire collection; that the proceeds be applied to the purchase of Entomological literature under direction of the Society.

The committee would also respectfully submit a proposition from a member, for consideration.

F. E. BLAISDELL,  
BEVERLY FLETCHER,  
E. C. VAN DYKE,

Committee.

The proposition above referred to was from Prof. Woodworth, who being present, made the following suggestion to aid in obtaining literature: Prof. Woodworth stated that he was about to publish a synoptical "List of the Insects of California," and that he print a small edition, say two or three hundred copies, and after reserving a few copies for private exchange, turn over the rest to the Society, giving about two hundred copies which could be sold at ten cents a part. The Society could reimburse him with the money obtained from the sale of the first numbers, leaving the remaining copies the property of the Society to be used for exchange or sale.

It was voted to accept the proposition.

A vote of thanks was extended to Prof. Woodworth for his willingness to aid the Society.

Communications from the following members were read:

Prof. J. J. Rivers, Miss Alice Eastwood, Dr. A. Fenyès, Prof. H. C. Fall, Dr. H. H. Behr, C. A. Whiting, Dr. M. L. Berger, and Prof. C. W. Woodworth.

Mr. James Cottle read a paper, "My Trip to Shasta," giving a list of his captures, as follows:

*Argynnis monticola* and *A. purpurascens*; *Melitæa palla*, *whitneyi*, and *leanira*; *Vanessa californica*; *Satyrus*, two new forms; *Chinobas californica*; *Thecla californica*, *grunus*, *halesus*, *sæpium*, and *nelsoni*; *Lycaena heteronea*, *pulla*, *daedatus*, and *anna*; *Neophasia menapia*, *Colias chrysomela*; *Parnassius*, *clodius* and *siminthus*; *Pamphila comma*, and a new form; *Hemaris cynoglossum*; *Nisoniades persius*; *Sphinx sequoias*, *Epicallia ochracea*; *Arctia ornata*; *Pyrrharctia isabellæ*; *Pseudohazis eglanterina* and *shastensis*, variations and aberrations of the same.

Dr. Van Dyke followed with a very interesting account of the collectors he met and collections he studied while recently visiting the Atlantic Coast.

Dr. Blaisdell read a review of Captain Casey's "Revision of the *Coccinellidæ*," with criticisms and suggestions for remedying certain difficulties encountered in applying the same.

Discussion followed.

F. W. Nunenmacher exhibited a collection of *Coccinellidæ* and species of other Families; Mr. Edw. Ehrhorn, a collection of

Coleoptera from Bolivia, S. A.; and Mr. Fordyce Grinnell a box of Lepidoptera collected at Pasadena.

Dr. Blaisdell stated that the Society was greatly in need of funds to defray expenses that have been incurred in the Society's endeavors to give distant members fuller reports of its meetings, and that all members should be prompt in giving the slight financial aid that is required by sending in the annual dues, as the Society cannot expand without a corresponding increase in expenses.

Social discourse and adjournment.

F. E. BLAISDELL, Secretary.

---

The seventh regular quarterly meeting of the Society was held on the evening of February 28th, 1903, at the residence of J. C. Huguenin, 1804 Fifteenth street.

President Fuchs in the chair.

Minutes of the previous meeting were read and approved.

Twelve members responded to roll call, as follows:

President Fuchs, Beverly Letcher, James Cottle, F. W. Nunenmacher, Dr. E. C. Van Dyke, F. C. Clark, L. E. Ricksecker, Edw. Ehrhorn, Ralph Hopping, J. C. Huguenin, Mrs. F. C. Clark, Dr. F. E. Blaisdell.

The Treasurer then read his report.

Mr. Fuchs proposed the name of Leon E. Munier for membership, the proposal being seconded by Mr. Letcher.

Dr. Blaisdell followed with the proposal of the names of Miss Julia Wright, O. N. Sanford, W. T. Clark, Fordyce Grinnell, and J. S. Hunter. The proposals were seconded by President Fuchs.

The candidates were elected to membership by the Secretary casting the votes. The newly elected members being present, were duly enrolled.

Dr. Van Dyke acted as President *pro tempore*, while Mr. Fuchs exhibited a box of native and exotic *Plusiotis*, giving a résumé of their structural differences, life histories, and distribution.

Mr. L. E. Ricksecker recalled the time when James Behrens brought the first specimen to California from Arizona.

Dr. Van Dyke exhibited a box of American *Lucanidæ*, and gave remarks upon the several genera, and other biological facts of great interest relative to their distribution and life histories.

Mr. Fordyce Grinnell exhibited maps illustrating the Faunal Areas and Life Zones of California.

Mr. Nunenmacher showed a box of *Coccinellidæ* from Ceylon.

Mr. Cottle exhibited a series of *Melitæa chalcidon*, showing six varieties.

Mr. Ralph Hopping presented for examination a box of

Coleoptera collected in Tulare County, California. Among the specimens were such rare species as: *Acmaeodera Plagiaticauda*, females of *Trachykele Lecontei*, *Cychrus subtilis*, *Corymbites mirabilis* Fall, and *Perothops Witticki*. A series of *Chariessa* demonstrated the fact that *Ch. dichroa* with black legs were but color varieties of the same species.

Edw. Ehrhorn exhibited a box of Coleoptera from Bolivia, South America.

Mr. O. N. Sanford presented to the Society a collection of Coleoptera from San Diego County, California.

A vote of thanks was extended to Mr. Sanford for his gift.

Mr. W. T. Clark presented Prof. Woodworth's "List of the Insects of California," Part I, with remarks on the same.

Dr. Blaisdell recommended that a committee on programme be appointed. He furthermore stated that he was working on a Revision of the Blaptini of the United States, north of Mexico, and requested the members of the Society to aid in obtaining specimens of the several species from the different regions west of the Mississippi River, so that the relationships of this polymorphic tribe could receive as complete a solution as is possible.

An enthusiastic discussion of the many interesting facts presented during the meeting then took place.

Refreshments and adjournment.

F. E. BLAISDELL, Secretary.

---

The Annual Field Day (eighth quarterly) of the Society was held on May 30th, 1903, at Leona Heights, Alameda County, California.

The following members participated in the outing:

President Fuchs, Dr. E. C. Van Dyke, O. N. Sanford, Beverly Letcher, F. W. Nunenmacher, A. Koebele, Miss Julia Wright, J. C. Huguenin, Dr. F. E. Blaisdell.

Invited guests: Mrs. Chas. Fuchs, Mrs. F. E. Blaisdell, C. S. Peek, Mrs. J. C. Huguenin, Miss Bertha Chapman, Miss Bessie Wright.

The members soon after arrival dispersed in various directions for the purpose of collecting.

Among the captures of the day were one specimen of *Desmocerus californicus* taken from the foliage of *Sambucus glaucus*, *Omus californicus*, *Cychrus interruptus* and *cristatus* var., *Cremastochilus angularis*, *Acmaeops tumida*, *Exochomus Pilatii* and numerous other species.

The Lepidopterists took a number of specimens.

A sumptuous lunch was enjoyed, after collecting was finished, and rest and social discourse continued until time for the homeward trip.

The day was warm, but the season was too far advanced for a profitable outing.

F. E. BLAISDELL, Secretary.

The ninth regular meeting of the Society was held at the Café Odeon, 8 and 10 O'Farrell street, on the evening of August 15th, 1903.

President Fuchs in the chair.

Minutes of the two previous meetings were read and approved.

Twelve members were present:

President Fuchs, Dr. E. C. Van Dyke, Beverly Letcher, F. W. Nunenmacher, Edw. Ehrhorn, James Cottle, L. E. Ricksecker, J. C. Huguenin, Dr. F. E. Blaisdell, Geo. Coleman, Alex. Craw, Leon Munier.

The following guests were present:

Mrs. Munier, Mrs. J. Cottle, Mrs. F. E. Blaisdell, Miss Ricksecker, Mrs. Chas. Fuchs, Miss Chapman, and Prof. F. H. Wickham of the University of Iowa, Iowa City, Iowa.

The Treasurer rendered his report.

President Fuchs delivered his annual address.

Election of officers for the ensuing year took place with the following results:

President, Chas. Fuchs; Treasurer and Secretary, F. E. Blaisdell; Assistant Secretary, Leon Munier.

Mr. Letcher proposed the name of Miss Bertha Chapman for membership, and Mr. Ehrhorn the name of Ross E. Winslow. Both were unanimously elected.

James Cottle read a paper entitled, "My Second Trip to Shasta."

Prof. Wickham being called upon, responded with a few remarks about his collecting trip not yet ended. He stated that a visit just made to those lakes that are the remains of what are known geologically as the ancient Lake Lahontan and Lake Bonneville had been instructive.

The taking of *Cicindela echo* at Salt Lake and at Honey Lake in Lassen County, and certain *Bembidia* with *Tanarthus* at both of those places, showed a similar fauna, while there were no signs of these species observed at Mono Lake (elev. 6380 ft.), which had a very different lacustrine fauna.

Mr. Alex. Craw gave an interesting account of his work in the introduction of parasitic insects which feed upon scale insects.

Mr. Geo. Coleman gave a talk on the ravages that *Dendroctonus* commit on the pines, with life history and means used for exterminating them.

L. E. Ricksecker exhibited a Scolytid beetle that he had observed attacking fruit trees (peach and others), stating that the insect selected the shaded sides of the trees for their depredations. He also exhibited the original works of Thomas Say, the "American Entomology" in two volumes, published in 1824, also photographs of the author's place of birth, home and tomb.

Mr. F. W. Nunenmacher exhibited the females of *Dascyllus*

*Davidsoni*, and some specimens of blown larvæ which showed great skill in this particular line of work. He also made some remarks upon punctuation and feveæ, questioning their value as characters in the separation of groups in the taxonimy of *Coccinellidæ*.

Mr. Cottle exhibited perfect specimens of Lepidoptera from Mt. Shasta, as follows: *Sphinx lineata*, with a marked variation in color markings; *Sp. perelegans*, etc. Fine Coleoptera, as: *Pityobius murrayi*, male and female; *Hylotorupes amethystinus*, *Pachyta spurca*, and *Cychrus convergens* (= *opacicollis* Casey).

Mr. J. C. Huguenin exhibited specimens of *Argynnis adrianti* (female) and *A. lillian*, a *Satyrus* near *sylvestris*, all taken in the Santa Cruz Mountains.

Dr. Blaisdell presented a box of *Eleodes* (subgens *Eleodes*) showing the new arrangement according to his recent studies.

A lunch was partaken of during an enjoyable discussion.

F. E. BLAISDELL, Secretary.

---

The tenth regular meeting of the Society was held at the residence of Leon Munier, 1148 Guerrero street, San Francisco, on the evening of November 14th, 1903.

President Fuchs in the chair.

Minutes of the preceding meeting were read and approved.

Seventeen members responded to roll call, as follows:

President Fuchs, Dr. E. C. Van Dyke, Beverly Letcher, F. W. Nunenmacher, Edw. Ehrhorn, James Cottle, Dr. F. E. Blaisdell, J. G. Grundel, F. C. Clark, Mrs. F. C. Clark, Prof. C. W. Woodworth, Leon Munier, J. C. Huguenin, Fordyce Grinnell, O. N. Sanford, Julia Wright, Miss Bertha Chapman.

Invited guests: Mrs. J. Cottle, Mrs. F. E. Blaisdell, Mr. and Mrs. Munier, Mrs. Chas. Fuchs.

The Treasurer rendered his report.

Miss Julia Wright read a paper giving a report and results of an outing at Towles, Placer County, California.

Dr. E. C. Van Dyke gave a very interesting account of a short trip to the Lake Tahoe region.

Mr. J. G. Grundel read a paper on the "Life History of *Chrysophanes gorgon*." He also stated that the larvæ of *Thecla angustus* very much resembles the larvæ of *Ch. gorgon* in shape, but that the color is pink, and it feeds on the flowers and buds of the Yerba Santa (*Erioduction*) during the latter part of March and in April.

Mr. Edw. Ehrhorn made remarks on a trip to the Klamath Hot Springs, Aug. 10th, 1903; and to Pokagama, Sept. 10th, 1903. The Coleoptera collected by him were identified by Mr. Fuchs and were as follows: *Cychrus obliquus* subsp. *convergens*, *Deretaphrus oregonensis*; *Cucujus puniceus*, larvae and pupæ; *Trogosita virescens*, *Platynus fossiger*, *Gyrinus* sp., *Anisodactylus*

sp., *Iphthimus serratus*, *Dyslobus segnis*, *Peltis* sp., and *Cossonus* sp. Mr. Ehrhorn also stated that he took three new species of scale insects, and reported good collecting, especially about the lumber camps in Oregon.

Chas. Riedy and S. N. Carnes were proposed for membership and duly elected.

Mr. Grundell exhibited the pupa and food plant (*Erigonum*) of *Chrysophanes gorgon*; also, a tin cabinet box of his own designing.

F. W. Nunenmacher exhibited eight species of *Coccinellidae* from the United States, among which were *Hyperaspis* Hornii and *Scymnus myrmidon*.

Miss Julia Wright showed a box of Coleoptera collected at Towles, Placer County, California, among which were *Trachekele Lecontei*<sup>1</sup> and *Omus fraterculus* Casey.<sup>2</sup>

Fordyce Grinnell exhibited a box of Lepidoptera collected about Los Angeles, California, showing among others: *Lasio-campa medusa*, *Anatolmis regulus*, *Nisoniades* n. sp., *Melitæa wrightii*, and *Colias Cæsonia* var.

Mr. J. C. Huguenin exhibited a box of Lepidoptera, among which were: *Limenitis Lorquini* var., *Kodiosoma* sp., *Alypia lunata*, *Pieris sisymbri*, *Pyrameis caryæ* var. *Mulleri* Letcher.

Mr. Cottle showed *Sphinx cersis*; and Mr. Munier a box of Coleoptera.

Dr. Van Dyke exhibited a box of Coleoptera collected in North Carolina, and in the Lake Tahoe region, California.

Refreshments and adjournment.

F. E. BLAISDELL, Secretary.

---

The eleventh regular meeting of the Society was held on the evening of Feb. 20th, 1904, at the residence of Miss Julia Wright, 2329 Pacific avenue, Alameda, California.

President Fuchs in the chair.

Minutes of the previous meeting were read and approved.

Eleven members answered to roll call, as follows:

President Fuchs, J. S. Hunter, James Cottle, L. E. Ricksecker, Julia Wright, Bertha Chapman, Dr. E. C. Van Dyke, Fordyce Grinnell, J. C. Huguenin, F. W. Nunenmacher, Dr. F. E. Blaisdell.

Twelve guests were present, namely: Miss Bessie Wright, Mrs. J. E. Cottle, Mrs. J. C. Huguenin, Mrs. F. E. Blaisdell, Mr. G. A. Wright, Mrs. G. A. Wright, Mrs. Chas. Fuchs, Ernest Struberg, W. H. Volck, Miss Helen Ricksecker, Mrs. L. C. Marion, F. X. Williams.

The Treasurer read his report.

---

<sup>1</sup> This species was found to be new and is now *T. opulenta* Fall.

<sup>2</sup> This species was previously reported as *O. rugipennis* Van Dyke, MS.

Mr. Francis Xavier Williams was then elected a member of the Society.

Mr. Fordyce Grinnell read a paper entitled, "An Early Californian Collector," giving the history of the elder Lorquin.

Mr. Chas. Fuchs followed with a paper on the "Habits and value of the *Coccinellidæ*."

Mr. L. E. Ricksecker reported that he had recently received a letter from Mr. Frederick Blanchard, stating that he was still at work on Entomological studies.

Mr. Ricksecker gave his reminiscences on collecting from an old stump—"a big one at that"! Special reference was made to some *Elateridæ* of the sub-family *Eucneminae*, particularly to a *Dromæolus* that he had distributed all over the United States.

Mr. Blanchard desired more, as among those sent were some *Dromæolus hospitalis*. Those found upon spruce are *D. californicus*, while the alder is the food plant of *D. hospitalis*.

Dr. Van Dyke stated that he found *D. basalis* and *D. californicus* on both pine and spruce.

Mr. Ricksecker stated that Coleoptera feeding on certain *Coniferæ* will come to spruce in Sonoma County, as there are no other species of *Coniferæ* there.

Douglas spruce (*Pseudotsuga mucronata* Sudworth, called also red fir and Oregon pine) is probably the food plant.

Mr. F. X. Williams, being called upon, responded with remarks on a trip to Echo Lake, Shasta County, California, in June. He stated that the weather was cold; a number of *Carrabidæ* and *Buprestidæ* were taken. Lepidoptera were not abundant. *Thecla dumetorum*, *Lycænia prodace*, and *Sphinx perelegans* were taken. The country is rocky and ragged above the coniferous belt. Manzanita (*Arctostaphylos*) predominated. *Chionobas* were taken there.

Mr. Cottle stated that some place should be determined upon for the Field Day in May.

It was mentioned that the Society go to Alma, Santa Clara County, as Mr. Grundel was willing and desirous to aid the Society in making the day an event.

Mr. Ricksecker desired the meeting to be held in Sonoma County, California.

Alma was decided upon.

Miss Julia Wright exhibited a box of Tasmanian Coleoptera.

Mr. F. W. Nunemacher presented for examination, specimens of *Hylotrupes ligneus* and *Polycaon* sp.

There being no further business, the Society adjourned in favor of social discussion and refreshments.

Features of the evening were the souvenir cards prepared by Miss Wright. Each member present, as far as could be determined beforehand, received a card with his favorite insect painted upon it.

F. E. BLAISDELL, Secretary.

The twelfth regular meeting, or Field Day, of the Society was to have been held at Alma, Santa Clara County, the attending members being the guests of Mr. J. G. Grundel.

Owing to the distance from the city, many members, on account of business, could not get away; others were off on vacation, so that not a single member enjoyed an outing on that day, much to the detriment of the Society and disappointment of Mr. Grundel.

F. E. BLAISDELL, Secretary.